

A1 the array, and aligning the inspection windows by reference to both first and second molecules.

7. (Amended) A method according to claim 1, wherein imaging is carried out by detecting emitted radiation.

A2 9. (Amended) A method according to claim 1, wherein the molecules of the array are capable of reacting with an analyte.

10. (Amended) A method according to claim 1, wherein the molecules of the array are polynucleotides, antibodies, proteins or organic compounds.

11. (Amended) A method according to claim 1, wherein the solid support is less than 1 cm².

12. (Amended) A method according to claim 1, wherein the solid support is a ceramic, silicon or glass material.

13. (Amended) A method according to claim 1, wherein the molecules of the array are covalently attached to the surface of the solid support.

Sub 14. (Amended) A method according to claim 1, wherein the image generated in step (i) must be above a pre-defined value in order to proceed with steps (ii) and (iii).

15. (Amended) A computer programmed to carry out a method according to claim 1.